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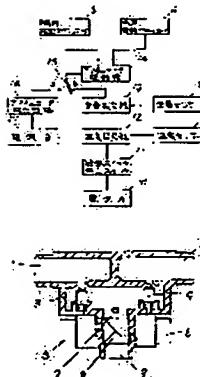
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## (54) MOTOR-DRIVEN MIXING PLUG

### (57)Abstract:

**PURPOSE:** To prevent danger of a scald caused by gushing-out of hot water being in a no-controlled state, and running-out of hot water of a heat source equipment, by adding the second control system which is operated by another power source at the time of service interruption, and closes both a motor-driven actuator for hot water and a water motor-driven actuator for water, to a control system of a motor-driven mixing plug.



**CONSTITUTION:** At the time of a state that hot water is flowing forth, when the voltage of a power source A10 has been lost due to service interruption, a switch 15 is switched from a contact point (b) to a contact point (a) by a service interruption signal of the power source A10, and by a power source B17 such as a battery, etc., which has been separated from a commercial power source, an actuator closing circuit 16 is operated. Subsequently, a motor-driven actuator 5 and 6 are driven more slowly than that of a structure which is returned by force of a spring, through an actuator driving circuit 14, and valve bodies 3, 4 are closed without being subjected to a fault of a water hammer, etc. When the commercial power source has been restored again, the switch 15 is returned to the contact point (b) again by a signal of the power source A10, but in accordance with a service interruption restoration mode of the first control system, in general, a hot water

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flowing-forth switch and a stop switch 11 are set to a stop, a temperature setting part 12 is set to a safe temperature, and the re-operation is executed.

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